SIEMENS

MAMMOMAT Novation *DR*

[redacted] CS

Update Instructions SP028/05/P

Title: Replacement of console cable

Reason for Update:		☒ Performance
Urgency:	☐ Immediate	☒ Within 6 months
Materials for classic update handling required?	☒ Yes	☐ No
Remote update handling feasible?	☐ Yes, without CSE	☐ Yes, with CSE ☒ No
File download available?	☐ Yes	☒ No
Materials free of charge?	☒ Yes	☐ No
Return of parts?	☐ Yes	☒ No
Estimated completion time:	1 hour	Number of CSE's: 1
Customer application training?	☐ Yes	☒ No

Systems/Products affected/System identifying IVK

Name	Material No.	Serial No.
MAMMOMAT Novation DR	066 46 900	1250 - 1311

Remark:

Components affected/to be modified

Name	Material No.	Serial No.	Component status affected
n.a.	n.a.	n.a.	n.a.

Remark:

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Dept.: CS PS 24

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Document Revision Level

This document corresponds to the version/revision level effective at the time of system delivery. Revisions to hardcopy documentation are not automatically distributed.

Please contact your local Siemens office to order current revision levels.

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Systems/Products Affected

MAMMOMAT Novation DR, part no. 066 46 900:

Systems from serial no. 1250 to 1311.

Reason for the Update

Possibly faulty electrical connection in one connector of the control console cable.

Prerequisites

n.a.

Special Tools

n.a.

Documents

- Update Instructions SP028/05/P - SPB7-250.896.14.01.02 (this document).
- Installation Instructions - Mounting instructions for radiation shield optionally with separate control console, SPB7-230.031.07.05.02;

Ordering Information

The following update kit has to be ordered from CSML (SAP Distribution Channel, factory 2050) :

Update Kit console cable **Material no. : 100 93 437**

List the serial number of the Novation *DR* system (matno: 6646900) on the order!

Contents of the Update Kit

Update kit **100 93 437** contains the following parts:

Pos.	Quan.	Material No.	Name
1	1	SPB7-250.896.14.01.02	Update Instructions (This doc.)
2	1	100 46 655	console cable

Tab. 1

Return of Parts

n.a.

Protective measures

System Power Supply

It is very important that any intervention in the equipment will start with disconnecting it from the power supply by means of the main circuit-breaker. Before removing or inserting any of the printed circuit boards, switch OFF the equipment.

⚠WARNING

If the MAMMOMAT Novation^{DR} system is only switched OFF at the control panel or with the circuit breaker CB S700, there is still voltage present within the generator. See the wiring diagram for MAMMOMAT Novation^{DR}.

Life-threatening electric shock hazard exists.

Disconnect mains cable and comply with the information on this page.

⚠WARNING

After shut-down of the system, there may still be 380 V DC present on the intermediate circuit of the MAMMOMAT generator.

Life-threatening electric shock hazard exists.

A bleader resistor is connected over the output DC capacitors.

The DC voltage will discharge below 60 Volt in 3 minutes.

The voltage level is indicated by LEDs H3 and H4.

PC Boards

⚠CAUTION

The p.c. boards contain electrostatic highly sensitive components.

If disregarded, the components could be damaged.

Use ESD equipment, ground prior to making contact and place the components on a conductive surface.

Presettings

- Shut down the Acquisition Workstation **before** switching the system OFF.
- Switch OFF the MAMMOMAT Novation *DR* system and switch OFF the main power line.

Work Steps

The control console (also called: panel) has to be disassembled.

NOTE	**If the panel is fixed to the radiation shield, the upper horizontal cross bars (in the middle of the glass) will have to be removed. Follow the Installation Instruction SPB7-230.031.07.05. - Chapter 3, page 6, 7. For some activity a helping hand may be necessary.**

- Remove the column cover plate (Fig. 1.1)
  Then remove the one hex screw in the cylindrical fixture fastening the upper cross bar. Hold and support the panel and then remove the cylindrical fixture / mounting block, thereby the upper crossbar gets loose. Unscrew the 4 hex screws and remove the panel from the upper cross bar and from the bracket. (see SPB7-230.031.07.05. - Chapter 3, page 6, 7)

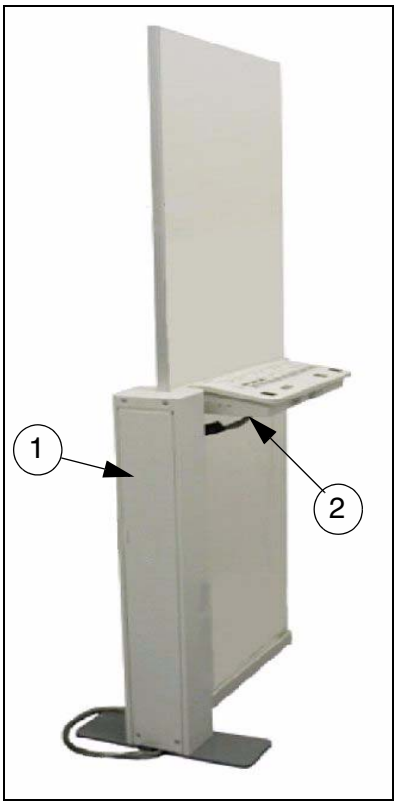

Fig. 1 Control console with radiation shield

- Disconnect the control console cable (Fig. 1.2)

- If no radiation shield is pesent, then disconnect the control console cable like shown in Fig. 2.1.

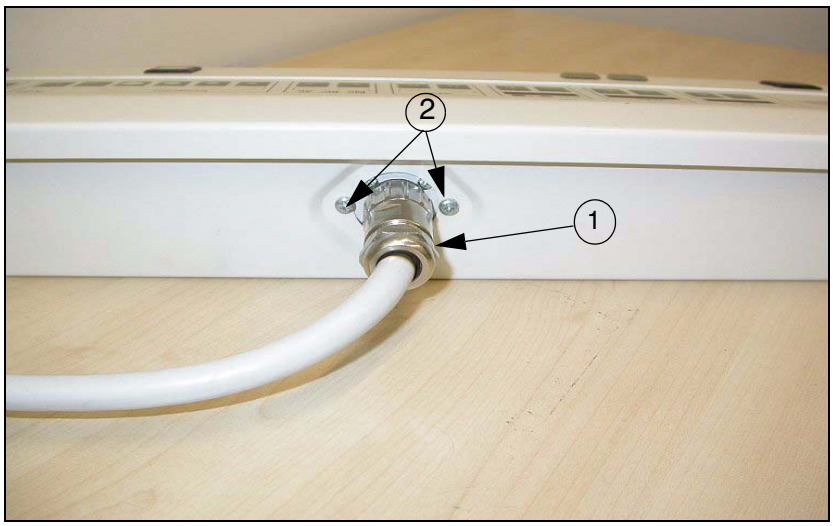

Fig. 2 Control console connection

- Remove the 17 screws from the brim of the console (Fig. 3.1) .

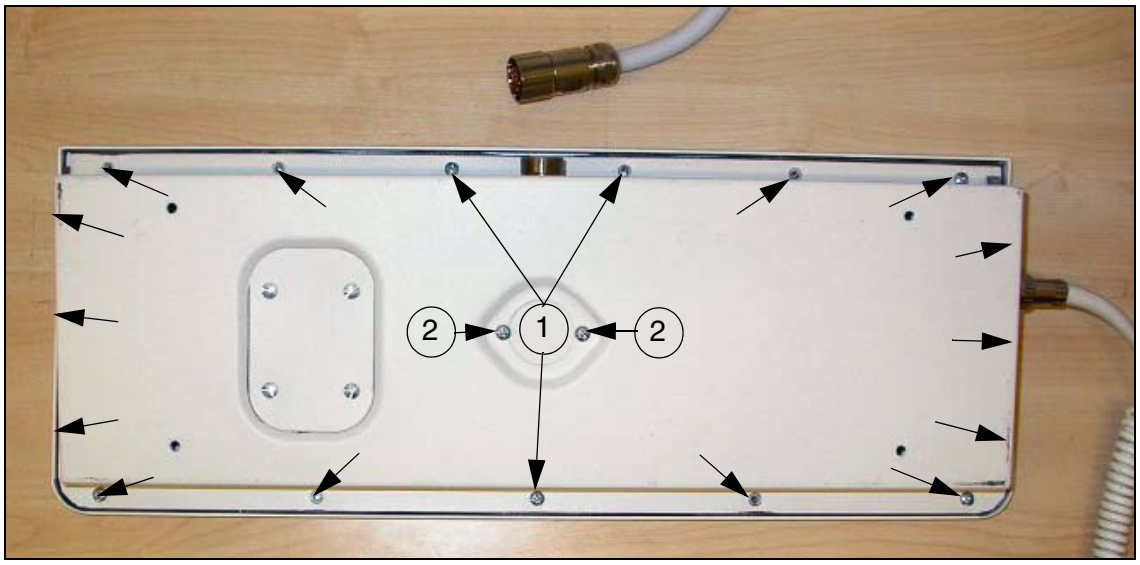

Fig. 3 Bottom of the control console

- Lift up the control panel (Fig. 4).
- In there, on the Printed Circuit Board D740: unplug the 4 connectors of the console cable (Fig. 4.1), remove the ground cables (Fig. 4.2).
- Remove the two screws - holding the female connector of the control cable (Fig. 1.2 or in case of no radiation shield Fig. 3.2).
- remove the cable (Fig. 4.3).

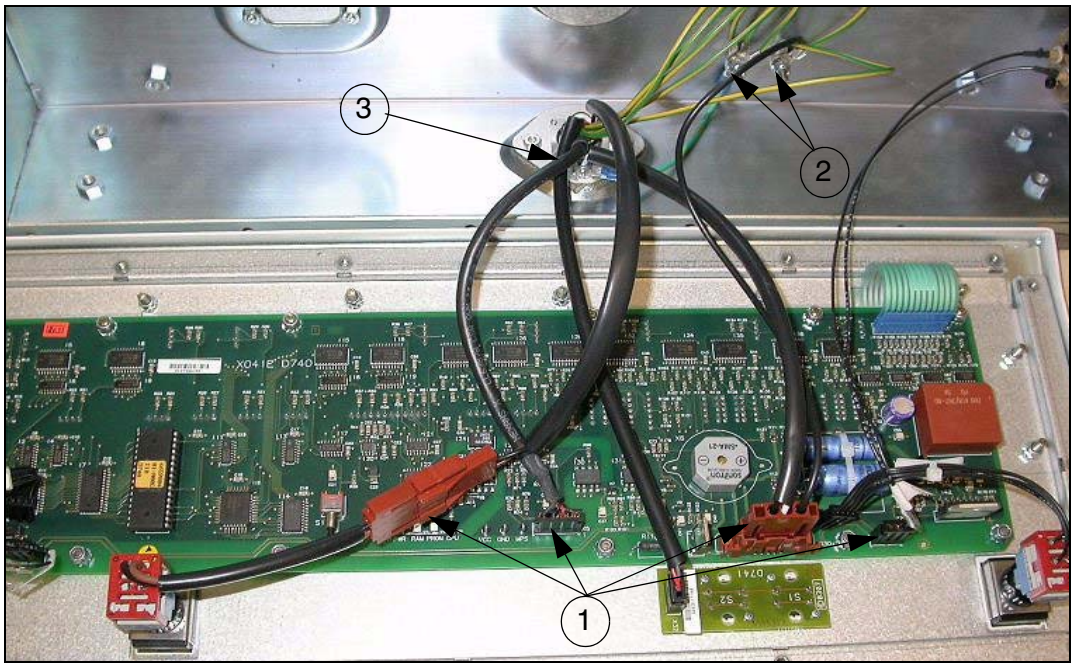

Fig. 4 PCB D740 with console cable

- Unscrew the steel sheet on the female connector (Fig. 5.1), remove it and mount it to the new console cable (Fig. 6).

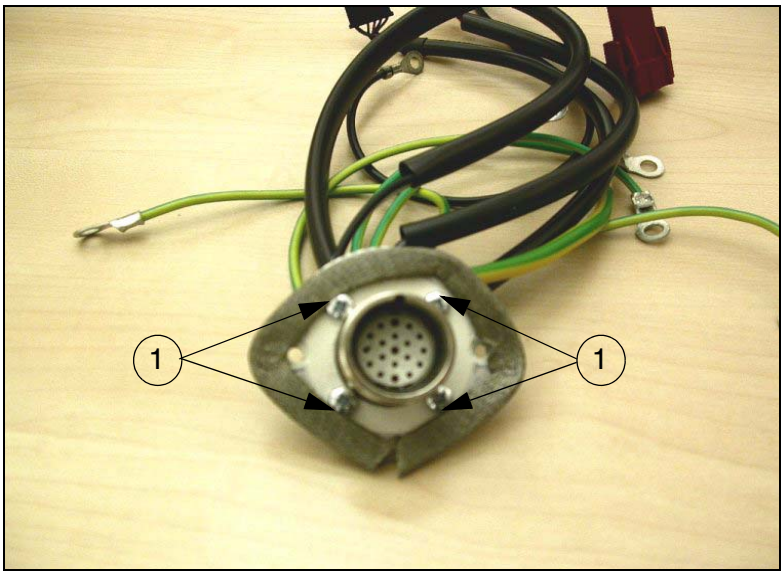

Fig. 5 console cable

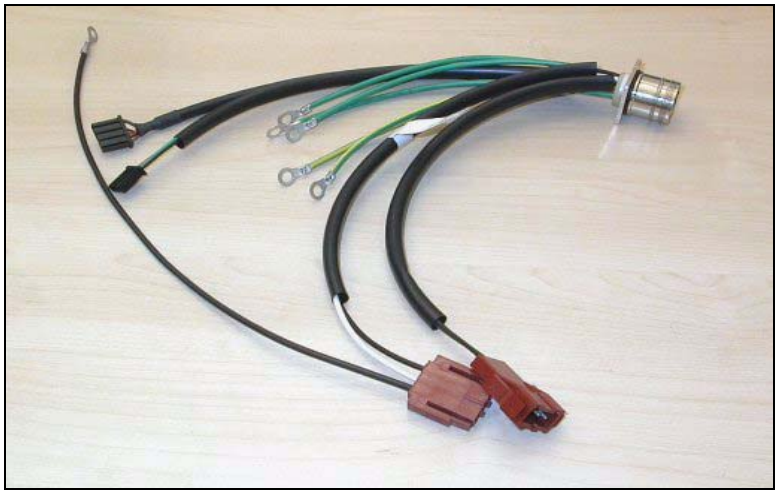

Fig. 6 console cable

- Install the new control console cable (Fig. 6) in reverse order.
- Close the panel and attach it back to the radiation shield.
- Close the column cover plate.

Final Work Steps

- Switch the system ON, after a short delay of ~3 minutes switch ON the AWS.
- Perform a test exposure and make sure the system works fine.
- The old console cable should be disposed off in a manner complying with the rules of environmental protection and waste disposal.
- Fill out, and if needed, make a copy of the attached "Completion Protocol/ Update Completion Form" and file it in the corresponding System Binder/User Handbook.
- Initiate a report about the completion of this UI through proper channel, i.e. through the Intranet web-based > Update Handling On-line Tool <.

Changes to Previous Version

n.a.

Completion Protocol

(Not required for "Remote updates without a service technician")

The update with the number **SP028/05/P** has been completed.

Material number: .....

Serial number: .....

Customer: ..... Functional Location: .....

Customer No.: .....

Name (CSE): ..... Telephone: .....

Country: ..... Location: .....

Date: ..... Signature: .....

Remark: .....

.....

NOTE

After completing the update, make a copy of this page, fill it out and file it in the corresponding System Binder/User Handbook.